Mortality

An Overview: 2016

Total South Dakota Resident Deaths 7,838

Crude Death Rates per 100,000 Population

South Dakota 905.7 United States (2014) 823.7

Age-Adjusted Death Rates per 100,000 Population

South Dakota 718.6 United States (2014) 724.6

Race is assigned based on standards set forth by the National Center for Health Statistics and the US Census Bureau in order for South Dakota's race data to be comparable to other areas. All race data in this section are categorized in the following manner:

Single-race white Single-race American Indian The remaining categories (Single-race Black, Single-race Asian, Single-race Pacific Islander, and Two or more races) are included in the totals, but are not shown specifically in any tables.

Table 45, below, displays the deaths, crude death rates, and age-adjusted death rates for the United States and South Dakota residents for the past 17 years.

The total number of South Dakota resident deaths in 2016, (7,838 deaths) is the highest number of deaths in the past 17 years.

Table 45
Resident Deaths, Crude Death Rates, and Age-Adjusted Death Rates,
South Dakota and United States, 2000-2016

	Un	ited States	ì	S	outh Dako	ta
Year	Number	Crude Rate	Age-Adjusted Rate	Number	Crude Rate	Age-Adjusted Rate
2016	NA*	NA*	NA*	7,838	905.7	718.6
2015	NA*	NA*	NA*	7,724	899.7	714.9
2014	2,626,418	823.7	724.6	7,500	879.1	709.9
2013	2,596,993	821.5	731.9	7,079	837.9	677.4
2012	2,543,279	821.5 731.9 810.2 732.8 807.3 741.3		7,283	873.9	706.8
2011	2,515,458	807.3 741.3		7,271	882.3	716.1
2010	2,468,435	799.5	747.0	7,087	870.4	713.4
2009	2,437,163	794.5	749.6	6,913	851.1	688.6
2008	2,471,984	813.0	758.3	7,056	877.0	712.1
2007	2,423,712	803.6	760.2	6,800	853.2	695.1
2006	2,426,264	810.4	776.5	7,038	892.6	732.6
2005	2,448,017	825.9	798.8	7,074	906.8	758.0
2004	2,397,615	816.5	8.008	6,811	879.7	742.3
2003	2,448,288	841.9	832.7	7,109	926.9	787.1
2002	2,443,387	847.3	845.3	6,886	903.5	771.8
2001	2,416,425	848.5	854.5	6,915	911.1	786.2
2000	2,403,351	854.0	869.0	7,014	929.2	804.8

Note: *U.S. 2015 and 2016 data were not available at publication time.

Crude death rates are per 100,000 population.

Age-adjusted rates are computed with the 2000 standard.

Source: National Center of Health Statistics

Leading Causes of Death

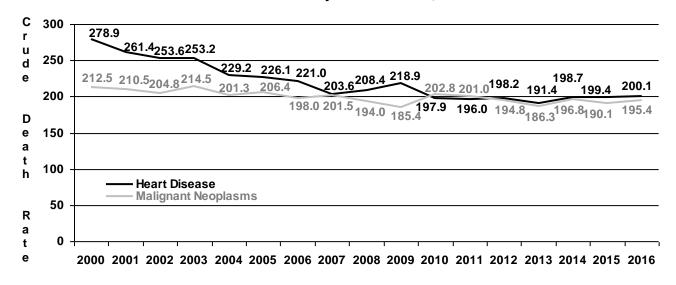
The five leading causes of death in 2016 for South Dakota residents were heart disease, cancer, accidents, Alzheimer's disease, and chronic lower respiratory diseases.

Heart disease remained the leading cause of death in South Dakota accounting for 22.1 percent of South Dakota's 2016 resident deaths. Heart disease was the leading cause of death for whites, males, and females in 2016. Accidents were the leading cause of death for American Indians in 2016.

Acute myocardial infarction was the leading cause of heart disease deaths during the year, accounting for 34.4 percent of heart disease deaths.

Figure 8, below, compares the crude death rates of South Dakota resident heart disease and cancer since 2000. From 2015 to 2016 there was an increase in the heart disease rate and an increase in the cancer rate.

Figure 8
South Dakota Resident Crude Death Rate Due to Malignant Neoplasms and Heart Disease by Year of Death, 2000-2016



Year of Death

Note: The crude death rate is calculated using yearly U.S. Census Bureau population estimates for that year. Source: South Dakota Department of Health, Office of Health Statistics

Cancer was the second leading cause of death in 2016 and accounted for 21.6 percent of South Dakota resident deaths, a 2.4 percent increase from 2015.

Accidents were the third leading cause of death and accounted for 6.4 percent of 2016 South Dakota resident deaths, a 6.7 percent increase from 2015. Motor vehicle accidents accounted for 26.8 percent of accidental deaths.

Alzheimer's disease was the fourth leading cause of death accounting for 5.7 percent of all South Dakota resident deaths in 2016, an increase of 3.6 percent from 2015.

Chronic lower respiratory disease accounted for 5.7 percent of South Dakota resident deaths and fell from third leading cause of death in 2015 to fifth leading cause of death in 2016.

Table 46, below, displays the breakdown of accidental deaths, which were the third leading cause of deaths among South Dakotans. In 2016, 503 or 6.4 percent of deaths were due to accidents.

The highest type of motor vehicle death in 2016 was car occupant with 48 deaths. The highest death in the other causes of accidental death in 2016 was falls with 185 deaths.

Table 46
South Dakota Resident Leading Causes of Death Due to Accidents, 2012-2016

			Yea	r of Dea	th	
	Total	2012	2013	2014	2015	2016
Total Deaths	2,272	417	424	461	467	503
Motor Vehicle Accidents	720	142	149	151	143	135
Car Occupant (V40-V49)	341	73	76	74	70	48
Occupant of Pick-Up Truck or Van (V50-V59)	133	24	25	31	25	28
Motorcycle Rider (V20-V29)	62	14	14	9	11	14
Pedestrian (V01-V09)	61	8	16	12	10	15
Occupant of Special All-Terrain Vehicle (V86)	39	11	5	5	9	9
Occupant of Heavy Transport Vehicle (V60-V69)	7	1	1	2	0	3
All Other Motor Vehicle Accidents	77	11	12	18	18	18
Other Causes of Accidental Death	1,552	275	275	310	324	368
Falls (W00-W19)	825	143	146	170	181	185
Accidental Poisoning (X40-X49)	268	42	44	58	57	67
Accidental Threats to Breathing (excl. drowning) (W75-W84)	118	18	29	24	20	27
Exposure to Smoke, Fire, and Flames (X00-X09)	56	22	10	5	9	10
Accidental Drowning and Submersion (W65-W74, V90, V92)	55	13	11	8	13	10
Exposure to Excessive Natural Cold (X31)	42	6	9	8	5	14
Accidental Discharge of Firearms (W32-W34)	15	2	1	2	5	5
Air Transport Accidents (V95.0-V95.3, V95.8-V95.9, & V96-V97)	12	2	1	5	1	3
Contact with Agricultural Machinery (W30)	11	3	2	1	3	2
All Other Causes of Accidents	150	24	22	29	30	45

Source: South Dakota Department of Health, Office of Health Statistics

Table 47, on the next page, lists South Dakota resident leading causes of death for the last five years. Heart disease and cancer were the leading causes of death in 2016 and for each of the five prior years.

Accidents took the third place leading cause of death followed by Alzheimer's disease and chronic lower respiratory disease round out the top 5 causes in 2016.

In 2016, causes six through ten were cerebrovascular disease, diabetes mellitus, influenza and pneumonia, suicide, and chronic liver disease and cirrhosis.

Table 47 South Dakota Resident Leading Causes of Death, 2012-2016

Cause of Death		Total			2012			2013			2014			2015			2016	-
Cause of Death	Rank	Deaths	%															
South Dakota (All Deaths)		37,424	100		7,283	100		7,079	100		7,500	100		7,724	100		7,838	100
Heart Disease (100-109, 111, 113, 120-151)	1	8,408	22.5	1	1,652	22.7	1	1,617	22.8	1	1,695	22.6	1	1,712	22.1	1	1,732	22.1
Malignant Neoplasms (Cancer) (C00-C97)	2	8,199	21.9	2	1,623	22.3	2	1,574	22.2	2	1,679	22.4	2	1,632	21.1	2	1,691	21.6
Accidents (V01-X59, Y85-Y86)	3	2,272	6.1	5	417	5.7	3	424	6.0	3	461	6.1	4	467	6.0	3	503	6.4
Chronic Lower Respiratory Diseases (J40-J47)	4	2,259	6.0	3	479	6.6	6	413	5.8	4	440	5.9	3	500	6.5	5	427	5.4
Alzheimer's Disease (G30)	5	2,185	5.8	4	462	6.3	4	420	5.9	6	433	5.8	5	421	5.5	4	449	5.7
Cerebrovascular Diseases (160-169)	6	2,064	5.5	6	410	5.6	5	414	5.8	5	439	5.9	6	381	4.9	6	420	5.4
Diabetes Mellitus (E10-E14)	7	1,216	3.2	7	219	3.0	7	239	3.4	7	223	3.0	7	282	3.7	7	253	3.2
Influenza and Pneumonia (J09-J18)	8	962	2.6	8	188	2.6	8	186	2.6	8	180	2.4	8	213	2.8	8	195	2.5
Intentional Self-Harm (Suicide) (*U03, X60-X84, Y87.0)	9	757	2.0	9	135	1.9	9	147	2.1	9	141	1.9	9	173	2.2	9	161	2.1
Chronic Liver Disease and Cirrhosis (K70 & K73-K74)	10	657	1.8	10	113	1.6	10	121	1.7	10	128	1.7	10	137	1.8	10	158	2.0
All Other Causes	-	8,445	22.6	-	1,585	21.8	-	1,524	21.5	-	1,681	22.4	-	1,806	23.4	-	1,849	23.6

Note: Letter/number combinations following cause of death are ICD-10 codes.

Due to rounding disease-specific percentages may not sum to 100.

The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the International Classification of Diseases, Tenth Revision.

Table 48
South Dakota Resident Leading Causes of Death by Race, 2016

			All Rac	es				White	9			An	nerican	Indian	
Cause of Death	Rank	Deaths	%	Crude Rate	Age- Adjusted Rate	Rank	Deaths	%	Crude Rate	Age- Adjusted Rate	Rank	Deaths	%	Crude Rate	Age- Adjusted Rate
South Dakota (All Deaths)		7,838	100	905.7	718.6		7,041	100	955.3	676.8		656	100	844.2	1,361.3
Heart Disease (100-109, 111, 113, 120-151)	1	1,732	22.1	200.1	153.7	1	1,616	23.0	219.2	150.4	2	91	13.9	117.1	210.6
Malignant Neoplasms (Cancer) (C00-C97)	2	1,691	21.6	195.4	156.6	2	1,584	22.5	214.9	155.6	3	86	13.1	110.7	184.5
Accidents (V01-X59, Y85-Y86)	3	503	6.4	58.1	53.1	6	388	5.5	52.6	44.3	1	98	14.9	126.1	146.0
Alzheimer's Disease (G30)	4	449	5.7	51.9	37.1	3	439	6.2	59.6	37.7	*	-	-	-	-
Chronic Lower Respiratory Diseases (J40-J47)	5	427	5.4	49.3	38.5	5	400	5.7	54.3	37.9	8	21	3.2	27.0	59.1
Cerebrovascular Diseases (I60-I69)	6	420	5.4	48.5	35.8	4	403	5.7	54.7	35.8	*	-	-	-	-
Diabetes Mellitus (E10-E14)	7	253	3.2	29.2	23.6	7	196	2.8	26.6	19.2	5	51	7.8	65.6	120.8
Influenza and Pneumonia (J09-J18)	8	195	2.5	22.5	16.7	8	169	2.4	22.9	14.7	7	23	3.5	29.6	63.5
Intentional Self-Harm (Suicide) (*U03, X60-X84, Y87.0)	9	161	2.1	18.6	19.9	10	115	1.6	15.6	16.0	6	34	5.2	43.8	45.8
Chronic Liver Disease and Cirrhosis (K70 & K73-K74)	10	158	2.0	18.3	16.4	*	-	-	-	-	4	58	8.8	74.6	107.6
Unspecified Dementia (F03)	*	-	-	-	-	9	116	1.6	15.7	9.5	*	-	-	-	-
Assault (homicide) (X85-Y09, Y87.1)	*	-	-	-	-	*	-	-	-	-	Т9	18	2.7	23.2	22.6
Nephritis, nephrotic syndrome, and nephrosis (N00-N07, N17-N19, N25- N27)	*	-	-	-	-	*	-	-	-	-	Т9	18	2.7	23.2	42.5
All Other Causes	-	1,849	23.6	213.6	-	-	1,615	22.9	219.1	-	-	158	24.1	203.3	-

Note: Letter / number combinations following cause of death are ICD-10 codes.

Due to rounding, disease-specific percentages may not sum to 100.

* This cause was not one of the 10 leading causes of death for this race group.

The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the International Classification of Diseases, Tenth Revision.

Race

Table 48, on the previous page, presents South Dakota resident leading causes of death by race as well as crude death rates and age-adjusted death rates.

In 2016, patterns for the 10 leading causes of death varied by race. Seven of the 10 leading causes were the same for whites and American Indians, but they differed by rank. For example, accidents were the sixth leading cause of death at 5.5 percent for the white population, but was the first leading cause of death for the American Indian population at 14.9 percent.

Gender

Table 49, on the following page, presents South Dakota resident leading causes of death by gender as well as crude death rates and age-adjusted death rates.

In 2016, patterns for the 10 leading causes of death in South Dakota also varied by gender. Nine of the 10 leading causes were the same for South Dakota's men and women, but they differed in rank. Intentional self-harm (suicide) was among the 10 leading

Heart disease deaths ranked second place for American Indians in 2016 while cancer ranked third.

Alzheimer's disease, cerebrovascular disease, and unspecified dementia were in the 10 leading causes of death for the white population, but not the American Indian population. Among the 10 leading causes of death for the American Indian population, but not for the white population, were chronic liver disease and cirrhosis, assault (homicide), and nephritis, nephrotic syndrome, and nephrosis.

causes of death for South Dakota's men, but not for women. Likewise, unspecified dementia was among the 10 leading causes of death for women, but not for men. Men were also more likely to die in accidents than women, while women were more likely to die from Alzheimer's disease than men.

Table 49 South Dakota Resident Leading Causes of Death by Gender, 2016

	Total Age-						,	Mal					Fem	ale	
Cause of Death	Rank	Deaths	%	Crude Rate	Age- Adjusted Rate	Rank	Deaths	%	Crude Rate	Age- Adjusted Rate	Rank	Deaths	%	Crude Rate	Age- Adjusted Rate
South Dakota (All Deaths)		7,838	100	905.7	718.6		4,049	100	928.1	862.3		3,789	100	882.8	594.1
Heart Disease (100-109, 111, 113, 120- 151)	1	1,732	22.1	200.1	153.7	1	943	23.3	216.1	198.7	1	789	20.8	183.8	114.8
Malignant Neoplasms (Cancer) (C00-C97)	2	1,691	21.6	195.4	156.6	2	934	23.1	214.1	193.3	2	757	20.0	176.4	129.5
Accidents (V01-X59, Y85-Y86)	3	503	6.4	58.1	53.1	3	313	7.7	71.7	70.8	5	190	5.0	44.3	35.4
Alzheimer's Disease (G30)	4	449	5.7	51.9	37.1	7	134	3.3	30.7	30.0	3	315	8.3	73.4	41.4
Chronic Lower Respiratory Diseases (J40-J47)	5	427	5.4	49.3	38.5	4	243	6.0	55.7	50.6	6	184	4.9	42.9	30.3
Cerebrovascular Diseases (I60-I69)	6	420	5.4	48.5	35.8	5	155	3.8	35.5	31.9	4	265	7.0	61.7	38.0
Diabetes Mellitus (E10-E14)	7	253	3.2	29.2	23.6	6	137	3.4	31.4	29.3	7	116	3.1	27.0	19.1
Influenza and Pneumonia (J09-J18)	8	195	2.5	22.5	16.7	10	87	2.1	19.9	18.5	8	108	2.9	25.2	14.9
Intentional Self-Harm (Suicide) (*U03, X60-X84, Y87.0)	9	161	2.1	18.6	19.9	8	125	3.1	28.7	30.4	*	_	-	-	-
Chronic Liver Disease and Cirrhosis (K70 & K73-K74)	10	158	2.0	18.3	16.4	9	90	2.2	20.6	18.7	10	68	1.8	15.8	13.9
Unspecified Dementia (F03)	*	-	-	-	-	*	-	-	-	-	9	86	2.3	20.0	10.6
All Other Causes	-	1,849	23.6	213.6	-	-	888	21.9	203.5	-	-	911	24.0	212.3	-

Note: Letter/number combinations following cause of death are ICD-10 codes. Due to rounding, disease-specific percentages may not sum to 100.

^{*}This cause was not one of the 10 leading causes of death for this gender.

The asterisks (*) preceding the cause of death codes indicate they are not part of the International Classification of Diseases, Tenth Revision Source: South Dakota Department of Health, Office of Health Statistics

Table 50
South Dakota Resident Five Leading Causes of Death by Age Group, 2012-2016

Rank	All Ages	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90 & over
1	Heart Disease 8,408	Accidents 58	Accidents 115	Accidents 278	Accidents 226	Malignant Neoplasms (Cancer) 244	Malignant Neoplasms (Cancer) 999	Malignant Neoplasms (Cancer) 1,756	Malignant Neoplasms (Cancer) 2,212	Heart Disease 2,537	Heart Disease 2,327
2	Malignant Neoplasms (Cancer) 8,199	Assault (Homicide) 19	Intentional Self-harm (Suicide) 91	Intentional Self-harm (Suicide) 153	Intentional Self-Harm (Suicide) 127	Heart Disease 208	Heart Disease 658	Heart Disease 1,146	Heart Disease 1,431	Malignant Neoplasms (Cancer) 2,155	Alzheimer's Disease 993
3	Accidents 2,272	Malignant Neoplasms (Cancer) 14	Malignant Neoplasms (Cancer) 18	Assault (Homicide) 30	Chronic Liver Disease and Cirrhosis 81	Accidents 201	Accidents 263	Chronic Lower Respiratory Disease 330	Chronic Lower Respiratory Disease 611	Alzheimer's Disease 954	Malignant Neoplasms (Cancer) 715
4	Chronic Lower Respiratory Diseases 2,259	Congenital Malformations, Deformations, and Chromosomal Anomalies 11	Assault (Homicide) 14	Malignant Neoplasms (Cancer) 25	Heart Disease 69	Chronic Liver Disease and Cirrhosis 146	Chronic Liver Disease and Cirrhosis 193	Diabetes Mellitus 231	Cerebrovascular Disease 325	Chronic Lower Respiratory Disease 796	Cerebrovascular Disease 655
5	Alzheimer's Disease 2,185	III-Defined and Unknown Causes of Mortality 6	Heart Disease 7	Heart Disease 21	Malignant Neoplasms (Cancer) 60	Intentional Self-Harm (Suicide) 141	Intentional Self-Harm (Suicide) 131	Accidents 200	Diabetes Mellitus 265	Cerebrovascular Disease 795	Chronic Lower Respiratory Disease 403

<u>Age</u>

Table 50, on the previous page, lists the five leading causes of death by age group for the last five years combined. Excluding infants, accidents were the leading cause of death for South Dakotans through age 39.

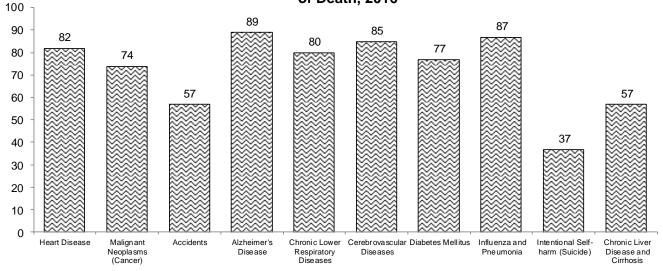
The leading cause of death for persons 40-79 was cancer. Heart disease was the leading cause of death for persons aged 80 and older.

Median Age

Figure 9, below, presents data on the median age at death for the 10 leading causes of death for South Dakota residents in 2016. The median age for

the 10 leading causes of death in 2016 remained quite similar to the median ages of death in 2015.

Figure 9
Median Age at Death for South Dakota Residents for the Leading Causes of Death, 2016



Source: South Dakota Department of Health, Office of Health Statistics

Table 51, below, shows the median age at death for each of the past five years by race and gender. When looking at race, American Indians have the lowest median

age at death at 58, while whites have the highest at 81. Males' median age at death is 75, while females is 83.

Table 51

Median Age at Death for South Dakota Residents by Race, Gender and Year of Death, 2012-2016

Year of Death	Total Median Age	White	American Indian	Male	Female
2016	79	81	58	75	83
2015	80	81	56	76	83
2014	80	81	58	76	83
2013	80	81	59	75	83
2012	80	82	58	76	83

Table 52, below, shows the median age at death for South Dakota residents for the leading causes of death by race and gender. In 2016, the median age at death was 79 for all South Dakotans; for white residents the median age was 81, compared to 58 for American Indians. The overall median age at death remained the same for whites and increased for American Indians when

compared to their overall median age at death in 2015. The median age at death in 2016 for South Dakota resident males and females was 75 and 83, respectively. The median age at death for males decreased from 2015 to 2016 while females' median age at death remained the same.

Table 52
Median Age at Death for South Dakota Residents for the Leading Causes of Death by Race and Gender, 2016

		Median A	Age at Death	in Years	
	All		Race	Ger	nder
Cause of Death	Total Deaths	White	American Indian	Male	Female
South Dakota (All Deaths)	79	81	58	75	83
Heart Disease (I00-I09, I11, I13, I20-I51)	82	83	64	77	87
Malignant Neoplasms (Cancer) (C00-C97)	74	75	65	74	74
Accidents (V01-X59, Y85-Y86)	57	68	34	51	79
Alzheimer's Disease (G30)	89	89	*	87	90
Chronic Lower Respiratory Diseases (J40-J47)	80	80	75	79	80
Cerebrovascular Diseases (I60-I69)	85	85	*	80	87
Diabetes Mellitus (E10-E14)	77	79	65	76	79
Influenza and Pneumonia (J09-J18)	87	87	72	82	88
Intentional Self-Harm (Suicide) (*U03, X60-X84, Y87.0)	37	44	28	38	*
Chronic Liver Disease and Cirrhosis (K70 & K73-K74)	57	*	53	57	60
Assault (homicide) (X85-Y019, Y87.1)	*	*	27	*	*
Nephritis, Nephrotic Syndrome, and Nephrosis (N00-N07, N17-N19, N25-N27)	*	*	67	*	*
Unspecified Dementia (F03)	*	90	*	*	92

Note: Letter / number combinations following cause of death are ICD-10 codes.

Source: South Dakota Department of Health, Office of Health Statistics

Years of Potential Life Lost

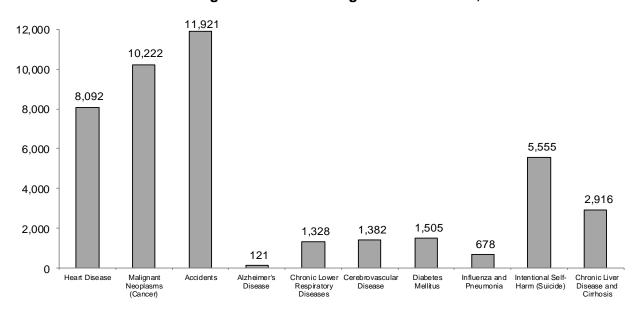
Figure 10, on the next page, depicts the years of potential life lost (YPLL) before age 75 for each of these causes.

In 2016, accidents led in YPLL with 11,921 followed by cancer with 10,222 years of potential life lost.

^{*}This cause was not one of the 10 leading causes of death for this race or gender.

The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the International Classification of Diseases, Tenth Revision.

Figure 10
South Dakota Resident Years of Potential Life Lost (YPLL)
Before Age 75 for the Leading Causes of Death, 2016

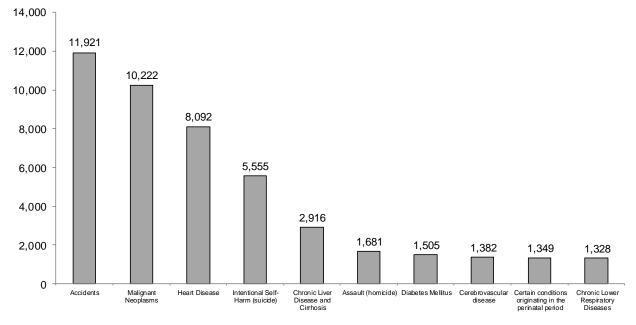


Note: This data is not comparable to the age-adjusted data in Figure 11 on the next page. Source: South Dakota Department of Health, Office of Health Statistics

Figure 10a, below, shows the years of potential life lost (YPLL) before age 75 for each of the causes in order from highest YPLL to lowest YPLL.

Accidents, cancer, and heart disease led in the most YPLL in South Dakota for 2016. This is the first year accidents surpassed cancer for the most YPLL.

Figure 10a
South Dakota Resident Years of Potential Life Lost (YPLL)
Before Age 75 for the Leading Causes of Death (in Descending Order), 2016



Note: This data is not comparable to the age-adjusted data in Figure 11 on the next page. Source: South Dakota Department of Health, Office of Health Statistics

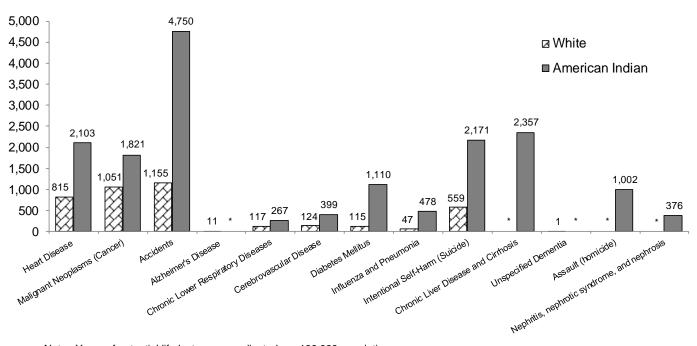
Figure 11, below, illustrates the years of potential life lost (YPLL) before age 75 per 100,000 population for the top 10 causes of death by race. When comparing YPLL by race, American Indians exceeded whites substantially in YPLL for the leading causes of death.

American Indians' and whites' largest YPLL was accidents with 4,750 years and 1,155 years respectively.

Whites' second largest YPLL was cancer with 1,051 years while American Indians' second largest YPLL was chronic liver disease and cirrhosis with 2,357 years.

Whites' third largest YPLL was heart disease with 815 years. Suicide was the third largest YPLL for American Indians with 2,171 years, which still exceeded whites' largest YPLL (accidents with 1,155 years).

Figure 11
Age-Adjusted Years of Potential Life Lost (YPLL) Before Age 75 for the Leading Causes of Death by Race, 2016



Note: Years of potential life lost are age-adjusted per 100,000 population. *This cause was not one of the 10 leading causes of death for this race group. Source: South Dakota Department of Health, Office of Health Statistics

Place of Death

Table 53, on the next page, displays the 10 leading causes of death by place where death occurred in 2016.

Overall, nursing home, long term care, and hospice facility had the highest occurrence of deaths with 39.4 percent. Hospital followed closely with 35.6 percent.

Table 53
South Dakota Resident Deaths by Cause of Death and Place of Death, 2016

					Nurs Home/ Ter Care/Ho	Long m			All C	other orted
	Tot	al	Hos	oital	Faci		Resid	ence		ries
Cause of Death	Num	%	Num	%	Num	%	Num	%	Num	%
South Dakota (All Deaths)	7,838	100	2,789	35.6	3,090	39.4	1,608	20.5	351	4.5
Heart Disease (I00-I09, I11, I13, I20-I51)	1,732	100	598	34.5	570	32.9	498	28.8	66	3.8
Malignant Neoplasms (Cancer) (C00-C97)	1,691	100	516	30.5	669	39.6	472	27.9	34	2.0
Accidents (V01-X59, Y85-Y86)	503	100	205	40.8	83	16.5	77	15.3	138	27.4
Alzheimer's Disease (G30)	449	100	28	6.2	390	86.9	29	6.5	2	0.4
Chronic Lower Resiratory Diseases (J40-J47)	427	100	156	36.5	166	38.9	98	23.0	7	1.6
Cerebrovascular Diseases (I60-I69)	420	100	181	43.1	212	50.5	24	5.7	3	0.7
Diabetes Mellitus (E10-E14)	253	100	95	37.5	101	39.9	52	20.6	5	2.0
Influenza and Pneumonia (J09-J18)	195	100	105	53.8	81	41.5	8	4.1	1	0.5
Intentional Self-Harm (Suicide) (*U03, X60-X84, Y87.0)	161	100	32	19.9	0	0.0	82	50.9	47	29.2
Chronic Liver Disease and Cirrhosis (K70 & K73-K74)	158	100	85	53.8	36	22.8	33	20.9	4	2.5
All Other Causes	1,849	100	788	42.6	782	42.3	235	12.7	44	2.4

Note: The asterisks (*) preceding the cause of death codes indicate they are not part of the International Classification of Diseases, Tenth Revision.

The place of death data may not add to the total due to not stated places not being specified, but being included in the total.

Source: South Dakota Department of Health, Office of Health Statistics

Tobacco Use

On the death certificate, the certifier was instructed to check "yes" or "probably" if in their opinion, the use of tobacco contributed to death or check "no" if in their clinical judgment tobacco use did not contribute to the death. There was also the option of "unknown" if the certifier was unsure if tobacco use contributed to death.

On 1,323 deaths, or 16.9 percent, the certifier indicated "yes" or "probably" that tobacco use contributed to the death. Conversely, on 4,583 deaths, or 58.5 percent, the certifier indicated that tobacco use did not contribute to the death.

In the remaining 1,932 deaths, or 24.6 percent, the certifier was unsure if tobacco use contributed to the death.

Table 54, on the next page, displays the 10 leading causes of death where the certifier said "yes" or "probably" that tobacco use contributed to the death.

Tobacco use contributed to death in 69.3 percent, or 291 out of the 420 trachea, bronchus, and lung cancer deaths in 2016. In 64.4 percent, or 275 chronic lower respiratory disease deaths the certifier said "yes" or "probably" that tobacco use contributed to the death.

Table 54
South Dakota Resident Leading Causes of Death as They Relate to Tobacco Use, 2016
(Did Tobacco Use Contribute to Death)

· ·	Yes/Pr	obably	Total	Deaths
Cause of Death	Number	Percent	Number	Percent
Total	1,323	16.9	7,838	100
Malignant neoplasms (C00-C97)	438	25.9	1,691	100
Malignant neoplasm of trachea, bronchus, and lung (C33-C34)	291	69.3	420	100
Malignant neoplasm, without specification of site (C80)	15	20.8	72	100
Malignant neoplasm of pancreas (C25)	15	11.7	128	100
Malignant neoplasm of bladder (C67)	15	31.9	47	100
Malignant neoplasm of esophagus (C15)	11	30.6	36	100
Malignant neoplasm of lip, oral cavity, and pharynx (C00-C14)	10	40.0	25	100
Malignant neoplasms of colon, rectum, and anus (C18-C21)	9	5.5	163	100
Chronic lower respiratory diseases (J40-J47)	275	64.4	427	100
Chronic obstructive pulmonary disease, unspecified (J44.9)	186	66.0	282	100
Chronic obstructive pulmonary disease with acute lower respiratory infection (J44.0)	43	61.4	70	100
Emphysema (J43)	17	65.4	26	100
Heart disease (I00-I09, I11, I13, I20-I51)	269	15.5	1,732	100
Acute myocardial infarction (I21-I22)	111	18.6	596	100
Atherosclerotic heart disease (I25.1)	67	17.2	389	100
Ischemic cardiomyopathy (I25.5)	13	11.1	42	100
Cerebrovascular diseases (I60-I69)	50	11.7	420	100
Diabetes mellitus (E10-E14)	43	12.0	253	100
Chronic liver disease and cirrhosis (K70 & K73-K74)	21	13.3	158	100
Alcoholic liver disease (K70)	17	15.0	113	100
Accidents (V01-X59, Y85-Y86)	20	4.0	503	100
Influenza and pneumonia (J09-J18)	16	8.3	195	100
Pneumonia (J12-J18)	14	7.5	186	100
Essential (primary) hypertension & hypertensive renal disease (I10 & I12)	12	13.0	92	100
Nephritis, nephrotic syndrome, and nephrosis (N00-N07, N17-N19, N25-N27)	11	12.0	92	100

Drug-Induced Deaths

Figures 12-17 And Tables 55-60 on the following pages break down the drug-induced deaths for South Dakota residents for the past 13 years by the manner of death, year of death, and type of drug.

As shown in Figure 12, there were 67 drug overdose deaths in 2016, up slightly from 66 drug overdose deaths in 2015. Table 54, below that, shows that of the 67 drug

overdose deaths in 2016, 52 deaths were unintentional, 12 deaths were suicides, one death was homicide, and two deaths were undetermined intent. The definition of drug overdose induced deaths is located in the back of this report (page 232) within the Technical Notes section.

Figure 12
South Dakota Resident Deaths Due to Drug Overdoses, 2004-2016

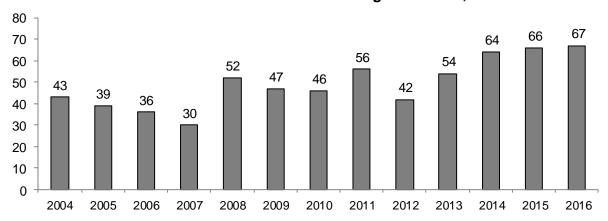
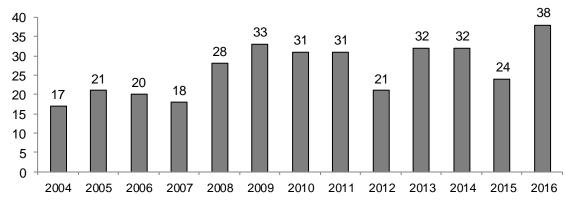


Table 55
South Dakota Resident Deaths Due to Drug Overdose by Manner of Death and Year of Death for All Drugs, 2004-2016

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	43	39	36	30	52	47	46	56	42	54	64	66	67
Unintentional	26	18	21	15	30	26	19	41	24	34	46	44	52
Suicide	12	14	12	8	13	12	16	11	11	15	12	19	12
Homicide	0	0	0	0	0	1	0	0	0	1	0	0	1
Undetermined Intent	5	7	3	7	9	8	11	4	7	4	6	3	2

Source: South Dakota Department of Health, Office of Health Statistics

Figure 13
South Dakota Resident Deaths Due to All Opioid Poisoning, 2004-2016



Source: South Dakota Department of Health, Office of Health Statistics

Table 56
South Dakota Resident Deaths Due to Drug Overdose by Manner of Death and Year of Death for All Opioid Poisoning, 2004-2016

				. .		0.00	<u>.</u>						
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	17	21	20	18	28	33	31	31	21	32	32	24	38
Unintentional	12	10	15	9	18	22	15	26	15	21	27	19	31
Suicide	3	6	3	3	4	6	8	3	2	9	2	4	6
Homicide	0	0	0	0	0	1	0	0	0	0	0	0	0
Undetermined Intent	2	5	2	6	6	4	8	2	4	2	3	1	1

Figure 14
South Dakota Resident Deaths Due to Prescription Opioid
Poisoning, 2004-2016

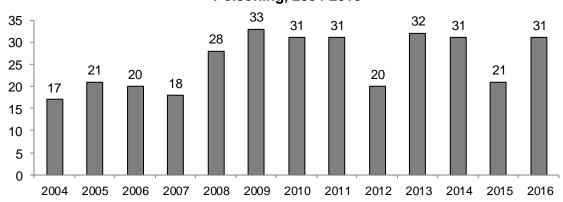
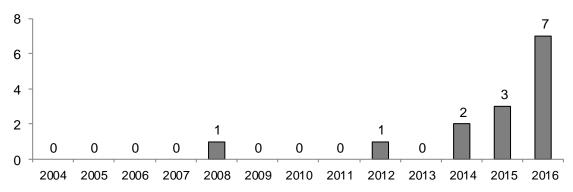


Table 57
South Dakota Resident Deaths Due to Drug Overdose by Manner of Death and Year of Death for Prescription Opioid Poisoning, 2004-2016

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	17	21	20	18	28	33	31	31	20	32	31	21	31
Unintentional	12	10	15	9	18	22	15	26	14	21	26	16	24
Suicide	3	6	3	3	4	6	8	3	2	9	2	4	6
Homicide	0	0	0	0	0	1	0	0	0	0	0	0	0
Undetermined Intent	2	5	2	6	6	4	8	2	4	2	3	1	1

Source: South Dakota Department of Health, Office of Health Statistics

Figure 15
South Dakota Resident Deaths Due to Illicit Opioid Poisoning, 2004-2016



Source: South Dakota Department of Health, Office of Health Statistics

Table 58
South Dakota Resident Deaths Due to Drug Overdose by Manner of Death and Year of Death for Illicit Opioid Poisoning, 2004-2016

							<u> </u>						
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	0	0	0	0	1	0	0	0	1	0	2	3	7
Unintentional	0	0	0	0	1	0	0	0	1	0	2	3	7
Suicide	0	0	0	0	0	0	0	0	0	0	0	0	0
Homicide	0	0	0	0	0	0	0	0	0	0	0	0	0
Undetermined Intent	0	0	0	0	0	0	0	0	0	0	0	0	0

Figure 16
South Dakota Resident Deaths Due to All Pharmaceutical Drug
Poisoning, 2004-2016

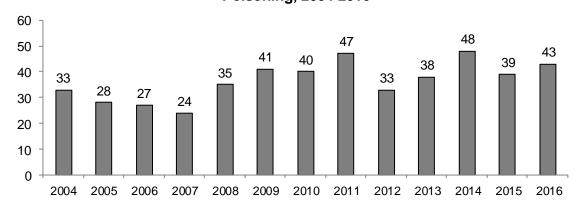


Table 59
South Dakota Resident Deaths Due to Drug Overdose by Manner of Death and Year of Death for All Pharmaceutical Drug Poisoning, 2004-2016

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	33	28	27	24	35	41	40	47	33	38	48	39	43
Unintentional	18	11	16	10	19	22	16	34	18	24	33	24	31
Suicide	10	11	9	7	8	11	14	10	10	12	9	12	10
Homicide	0	0	0	0	0	1	0	0	0	0	0	0	1
Undetermined Intent	5	6	2	7	8	7	10	3	5	2	6	3	1

Source: South Dakota Department of Health, Office of Health Statistics

Figure 17
South Dakota Resident Deaths Due to Illicit Drug Poisoning, 2004-2016

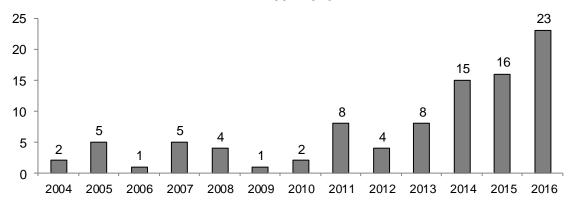


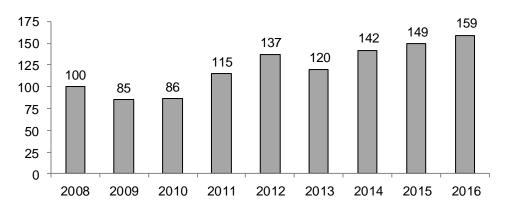
Table 60
South Dakota Resident Deaths Due to Drug Overdose by Manner of Death and Year of Death for Illicit Drug Poisoning, 2004-2016

					<u> </u>	0.00.	<u>.</u>	•••					
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	2	5	1	5	4	1	2	8	4	8	15	16	23
Unintentional	2	4	0	5	3	1	2	7	3	6	14	16	23
Suicide	0	0	1	0	0	0	0	1	1	1	1	0	0
Homicide	0	0	0	0	0	0	0	0	0	1	0	0	0
Undetermined Intent	0	1	0	0	1	0	0	0	0	0	0	0	0

Alcohol-Induced Deaths

Figure 18, below, shows the alcoholinduced deaths for South Dakota residents for the past nine years. The definition of alcohol-induced deaths is located in the back of this report (page 231) within the Technical Notes section.

Figure 18
South Dakota Resident Alcohol-Induced Deaths, 2008-2016



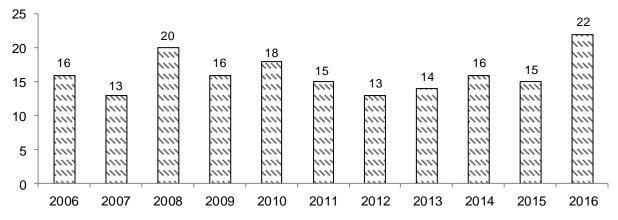
Source: South Dakota Department of Health, Office of Health Statistics

Farm Accident Deaths

Figure 19, below, shows the number of South Dakota resident deaths due to farm accidents for the past 11 years. The

definition of farm accident deaths is located in the back of this report (page 231) within the Technical Notes section.

Figure 19
South Dakota Resident Deaths Due to Farm Accidents, 2006-2016



Source: South Dakota Department of Health, Office of Health Statistics

Maternal Mortality

Table 61, on the following page, shows maternal mortality deaths for the past 12 years. The definition of maternal mortality is located in the back of this report (page 231) within the Technical Notes section.

Table 61
South Dakota Resident Maternal Deaths by Year of Death, 2005-2016

Year	# of Deaths
2016	1
2015	2
2014	1
2013	3
2012	2
2011	3
2010	1
2009	1
2008	0
2007	3
2006	1
2005	1

Firearm Deaths

Table 62, below, shows firearm deaths for South Dakota residents for the past nine years. The definition of firearm deaths is located in the back of this report (page 231) within the Technical Notes section.

Table 62
South Dakota Resident Deaths Due to Firearms, 2008-2016

	Total		Manner of Death	
Year	Firearm Deaths	Accident	Suicide	Homicide
2016	107	5	84	18
2015	95	5	73	16
2014	90	2	76	12
2013	79	1	71	7
2012	84	2	76	6
2011	71	1	60	10
2010	75	3	65	5
2009	75	4	61	10
2008	83	4	68	10

Source: South Dakota Department of Health, Office of Health Statistics

Method of Disposition

Table 63, on the next page, displays the different methods of disposition for the last 11 years. The top disposition in 2016 was burial with 4,145 deaths. The second highest

method of disposition in 2016 was cremation with 3,190 deaths. Since 2006, cremation has increased from 20.5 percent of all dispositions to 40.7 percent in 2016.

Table 63
South Dakota Resident Deaths by Disposition, 2006-2016

					Туре	of Dispo	sition					
Year	Total	Ві	urial	Crer	nation		val from tate	Dor	ation	Entombment		
	Deaths	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	
2016	7,838	4,145	52.9	3,190	40.7	447	5.7	38	0.5	17	0.2	
2015	7,724	4,335	56.1	2,939	38.1	413	5.3	23	0.3	14	0.2	
2014	7,500	4,302	57.4	2,738	36.5	398	5.3	40	0.5	15	0.2	
2013	7,079	4,146	58.6	2,468	34.9	417	5.9	32	0.5	15	0.2	
2012	7,283	4,465	61.3	2,345	32.2	428	5.9	33	0.5	10	0.1	
2011	7,271	4,539	62.4	2,211	30.4	472	6.5	33	0.5	10	0.1	
2010	7,087	4,548	64.2	2,044	28.8	433	6.1	47	0.7	10	0.1	
2009	6,913	4,545	65.7	1,855	26.8	464	6.7	34	0.5	8	0.1	
2008	7,056	4,857	68.8	1,662	23.6	485	6.9	35	0.5	9	0.1	
2007	6,800	4,775	70.2	1,474	1,474 21.7		7.1	46	0.7	18	0.3	
2006	7,038	5,127	72.8	1,440	20.5	431	6.1	30	0.4	6	0.1	

Note: Failure of deaths to add to total is due to the disposition not stated. Source: South Dakota Department of Health, Office of Health Statistics

<u>Leading Causes and Selected Components</u>

Tables 64a-64c, on pages 72 through 75, display South Dakota resident deaths, the crude death rate, and the age-adjusted death rate for 15 leading causes and selected components from 2007 to 2016.

The crude and age-adjusted rates for all causes in 2016 were 905.7 and 718.6 respectively, which are up from the crude and age-adjusted rates in 2015 of 899.7 and 714.9, respectively.

Table 64a
South Dakota Resident Deaths for 15 Leading Causes and Selected Components, 2007-2016

					Number	of Death	S			
Cause of Death	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
All Causes	6,800	7,056	6,913	7,087	7,271	7,283	7,079	7,500	7,724	7,838
Heart Disease	1,623	1,677	1,778	1,611	1,615	1,652	1,617	1,695	1,712	1,732
Malignant Neoplasms (Cancer)	1,606	1,561	1,506	1,651	1,656	1,623	1,574	1,679	1,632	1,691
Trachea, Bronchus, and Lung	425	445	387	434	457	434	416	439	424	420
Colon, Rectum, and Anus	165	152	157	168	137	166	169	186	168	163
Pancreas	93	87	110	98	95	105	109	118	109	128
Female Breast	113	118	95	103	122	107	108	100	104	109
Prostate	94	78	84	96	88	75	76	75	90	107
Leukemia	76	60	57	82	77	68	89	90	66	61
Accidents	357	372	348	391	407	417	424	461	467	503
Motor Vehicle Accidents	145	125	133	141	99	142	149	151	143	135

Table 64a (continued)
South Dakota Resident Deaths for 15 Leading Causes and Selected Components, 2007-2016

	Number of Deaths											
Cause of Death	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016		
Alzheimer's Disease	345	401	402	401	423	462	420	433	421	449		
Chronic Lower Respiratory Diseases	458	486	440	451	485	479	413	440	500	427		
Cerebrovascular Diseases	408	391	417	411	442	410	414	439	381	420		
Diabetes Mellitus	246	216	200	241	267	219	239	223	282	253		
Influenza and Pneumonia	189	186	135	166	178	188	186	180	213	195		
Intentional Self-Harm (Suicide)	101	123	128	139	125	135	147	141	173	161		
Chronic Liver Disease and Cirrhosis	94	100	79	83	98	113	121	128	137	158		
Unspecified Dementia	70	80	90	91	117	111	99	120	126	121		
Essential (Primary) Hypertension and Hypertensive Renal Disease	70	65	52	93	94	78	72	95	103	92		
Nephritis, Nephrotic Syndrome, and Nephrosis	74	90	99	72	49	57	62	72	79	92		
Parkinson's Disease	62	69	65	85	73	53	78	63	80	86		
Septicemia	64	54	63	66	69	64	74	81	119	81		

Table 64b
South Dakota Resident Crude Death Rates for 15 Leading Causes and Selected Components, 2007-2016

				C	rude De	ath Rate	s			
Cause of Death	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
All Causes	853.2	877.0	851.0	870.4	882.3	873.9	837.9	879.1	899.7	905.7
Heart Disease	203.6	208.4	218.9	197.9	196.0	198.2	191.4	198.7	199.4	200.1
Malignant Neoplasms (Cancer)	201.5	194.0	185.4	202.8	201.0	194.8	186.3	196.8	190.1	195.4
Trachea, Bronchus, and Lung	53.3	55.3	47.6	53.3	55.5	52.1	49.2	51.5	49.4	48.5
Colon, Rectum, and Anus	20.7	18.9	19.3	20.6	16.6	19.9	20.0	21.8	19.6	18.8
Pancreas	11.7	10.8	13.5	12.0	11.5	12.6	12.9	13.8	12.7	14.8
Female Breast	28.3	29.3	23.4	25.3	29.7	25.8	25.7	23.6	24.4	25.4
Prostate	23.7	19.4	20.7	23.6	21.3	17.9	17.9	17.5	20.8	24.5
Leukemia	9.5	7.5	7.0	10.1	9.3	8.2	10.5	10.5	7.7	7.0
Accidents	44.8	46.2	42.8	48.0	49.4	50.0	50.2	54.0	54.4	58.1
Motor Vehicle Accidents	18.2	15.5	16.4	17.3	12.0	17.0	17.6	17.7	16.7	15.6

Table 64b (continued) South Dakota Resident Crude Death Rates for 15 Leading Causes and Selected Components, 2007-2016

		Crude Death Rates											
Cause of Death	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016			
Alzheimer's Disease	43.3	49.8	49.5	49.3	51.3	55.4	49.7	50.8	49.0	51.9			
Chronic Lower Respiratory Diseases	57.5	60.4	54.2	55.4	58.9	57.5	48.9	51.6	58.2	49.3			
Cerebrovascular Diseases	51.2	48.6	51.3	50.5	53.6	49.2	49.0	51.5	44.4	48.5			
Diabetes Mellitus	30.9	26.8	24.6	29.6	32.4	26.3	28.3	26.1	32.8	29.2			
Influenza and Pneumonia	23.7	23.1	16.6	20.4	21.6	22.6	22.0	21.1	24.8	22.5			
Intentional Self-Harm (Suicide)	12.7	15.3	15.8	17.1	15.2	16.2	17.4	16.5	20.2	18.6			
Chronic Liver Disease and Cirrhosis	11.8	12.4	9.7	10.2	11.9	13.6	14.3	15.0	16.0	18.3			
Unspecified Dementia	8.8	9.9	11.1	11.2	14.2	13.3	11.7	14.1	14.7	14.0			
Essential (Primary) Hypertension and Hypertensive Renal Disease	8.8	8.1	6.4	11.4	11.4	9.4	8.5	11.1	12.0	10.6			
Nephritis, Nephrotic Syndrome, and Nephrosis	9.3	11.2	12.2	8.8	5.9	6.8	7.3	8.4	9.2	10.6			
Parkinson's Disease	7.8	8.6	8.0	10.4	8.9	6.4	9.2	7.4	9.3	9.9			
Septicemia	8.0	6.7	7.8	8.1	8.4	7.7	8.8	9.5	13.9	9.4			

Table 64c South Dakota Resident Age-Adjusted Death Rates for 15 Leading Causes and Selected Components, 2007-2016

		Age-Adjusted Death Rates											
Cause of Death	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016			
All Causes	695.1	712.1	688.6	713.4	716.1	706.8	677.4	709.9	714.9	718.6			
Heart Disease	159.5	162.2	168.3	154.9	153.0	153.8	148.8	153.6	151.0	153.7			
Malignant Neoplasms (Cancer)	170.9	164.8	156.5	170.6	168.6	162.2	154.3	161.4	153.3	156.6			
Trachea, Bronchus, and Lung	46.3	47.3	40.7	45.4	47.2	43.5	41.0	41.8	39.7	38.2			
Colon, Rectum, and Anus	17.2	15.9	15.8	17.0	13.9	16.4	16.7	17.6	15.7	15.2			
Pancreas	9.8	8.9	11.3	10.2	9.5	10.6	10.7	11.1	10.3	11.6			
Female Breast	20.9	23.3	17.6	19.7	23.7	19.5	19.3	17.9	18.7	19.3			
Prostate	23.7	19.2	20.3	23.7	20.9	17.7	17.0	16.7	19.6	23.1			
Leukemia	8.1	6.1	6.0	8.6	7.8	7.3	9.0	8.8	6.2	5.6			
Accidents	40.9	41.8	40.0	44.3	44.8	46.6	46.4	49.2	49.3	53.1			
Motor Vehicle Accidents	17.9	15.1	16.6	17.0	11.8	17.1	17.4	17.5	16.3	15.8			

Table 64c (continued)
South Dakota Resident Age-Adjusted Death Rates for 15 Leading Causes and Selected
Components, 2007-2016

	Age-Adjusted Death Rates									
Cause of Death	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Alzheimer's Disease	30.7	35.9	35.2	36.2	36.6	39.6	35.1	36.1	34.8	37.1
Chronic Lower Respiratory Diseases	47.1	49.0	43.9	46.0	47.4	45.4	39.1	40.7	45.1	38.5
Cerebrovascular Diseases	38.9	37.6	38.8	39.2	42.0	37.6	37.5	38.8	33.0	35.8
Diabetes Mellitus	25.5	21.8	20.4	24.6	26.8	21.6	22.9	21.2	26.3	23.6
Influenza and Pneumonia	18.1	17.3	12.6	15.5	16.3	16.9	16.4	16.1	18.3	16.7
Intentional Self-Harm (Suicide)	12.3	15.4	16.0	17.3	15.3	16.1	18.0	17.1	20.4	19.9
Chronic Liver Disease and Cirrhosis	11.2	11.6	8.7	9.7	11.1	13.3	13.3	16.0	15.9	16.4
Unspecified Dementia	6.2	6.9	7.9	8.3	10.2	9.4	8.4	10.1	10.5	9.6
Essential (Primary) Hypertension and Hypertensive Renal Disease	6.6	6.2	4.8	8.8	8.5	6.8	6.3	8.1	8.7	7.9
Nephritis, Nephrotic Syndrome, and Nephrosis	7.2	8.9	9.4	7.1	4.5	5.5	5.7	6.5	7.4	7.8
Parkinson's Disease	6.1	6.7	6.2	8.2	7.0	5.1	7.3	6.3	7.2	7.6
Septicemia	6.5	5.5	6.4	6.7	7.0	6.2	7.2	8.1	11.0	7.5

The following figures on the next several pages display 10 year trends for crude

death rates for the 15 leading causes of death in 2016.

Figure 20
South Dakota Resident Crude Death Rate Due to Heart Disease by Year of Death, 2007-2016

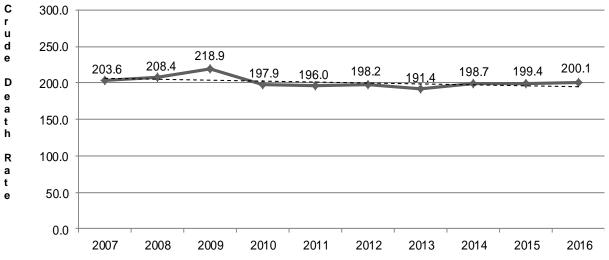


Figure 21
South Dakota Resident Crude Death Rate Due to Malignant Neoplasms by Year of Death, 2007-2016

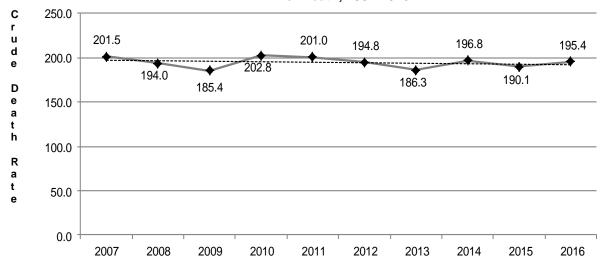
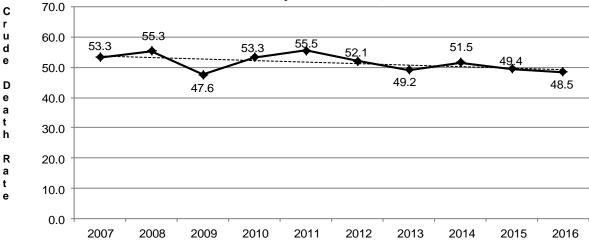


Figure 21a
South Dakota Resident Crude Death Rate Due to Trachea, Bronchus, and Lung
Cancer by Year of Death, 2007-2016



Note: The crude death rate is calculated using yearly U.S. Census Bureau population estimates for that year. Source: South Dakota Department of Health, Office of Health Statistics

Figure 21b
South Dakota Resident Crude Death Rate Due to Colon, Rectum, and Anus
Cancer by Year of Death, 2007-2016

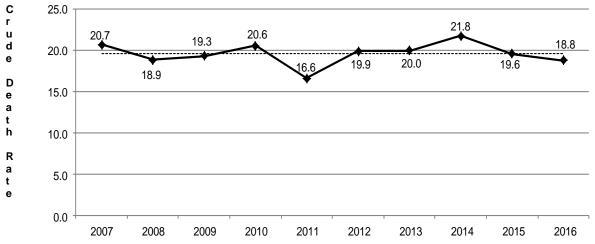
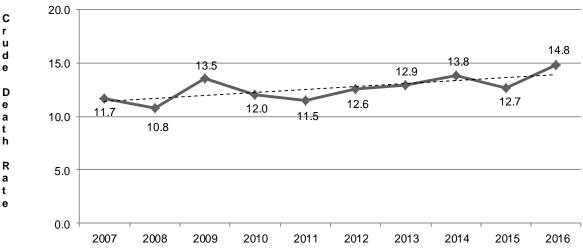


Figure 21c South Dakota Resident Crude Death Rate Due to Pancreas Cancer by Year of Death, 2007-2016



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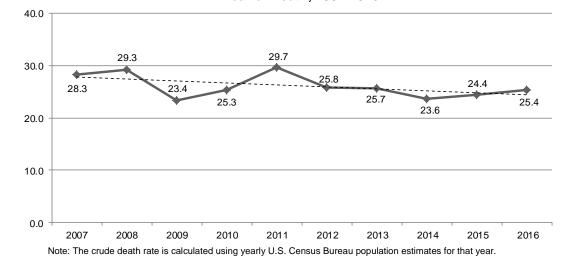
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Figure 21d South Dakota Resident Crude Death Rate Due to Female Breast Cancer by Year of Death, 2007-2016



Source: South Dakota Department of Health, Office of Health Statistics Figure 21e South Dakota Resident Crude Death Rate Due to Prostate Cancer by Year of Death,

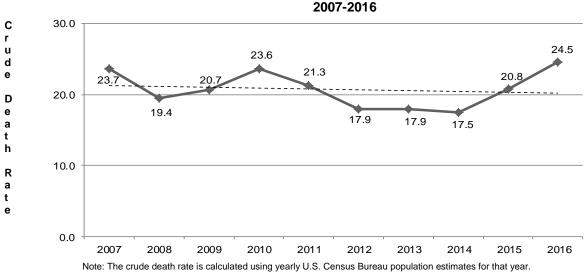


Figure 21f
South Dakota Resident Crude Death Rate Due to Leukemia by Year of Death,
2007-2016

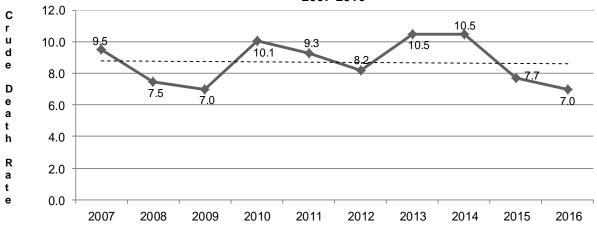


Figure 22
South Dakota Resident Crude Death Rate Due to Accidents by Year of Death, 2007-2016

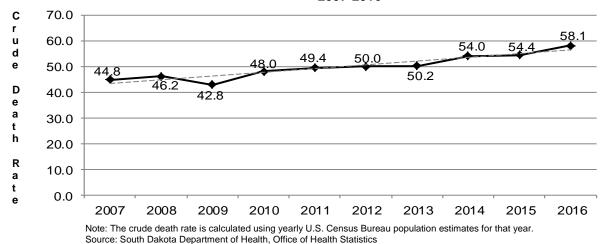


Figure 22a
South Dakota Resident Crude Death Rate Due to Motor Vehicle Accidents by
Year of Death, 2007-2016

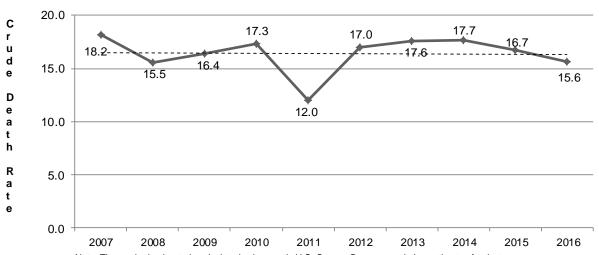


Figure 23
South Dakota Resident Crude Death Rate Due to Alzheimer's Disease by Year of Death, 2007-2016

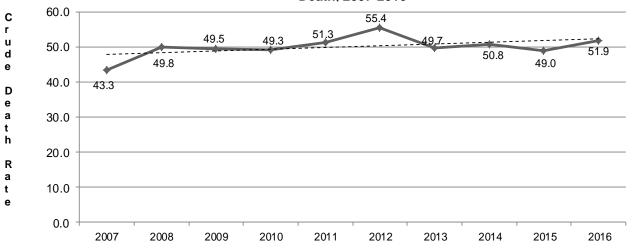
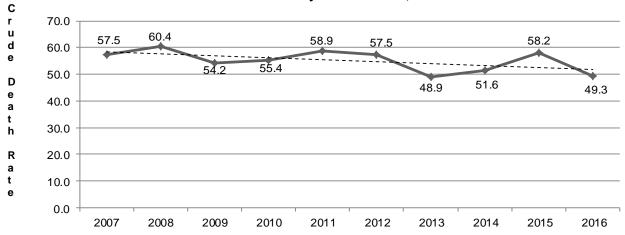


Figure 24
South Dakota Resident Crude Death Rate Due to Chronic Lower Respiratory
Disease by Year of Death, 2007-2016



Note: The crude death rate is calculated using yearly U.S. Census Bureau population estimates for that year. Source: South Dakota Department of Health, Office of Health Statistics

Figure 25
South Dakota Resident Crude Death Rate Due to Cerebrovascular Disease by Year of Death, 2007-2016

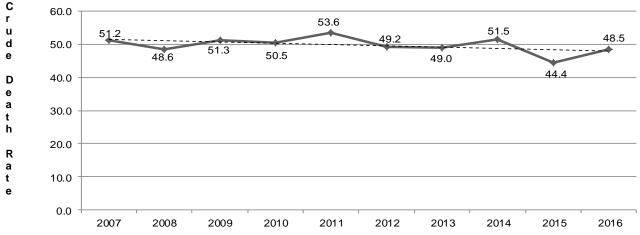


Figure 26
South Dakota Resident Crude Death Rate Due to Diabetes Mellitus by Year of Death, 2007-2016

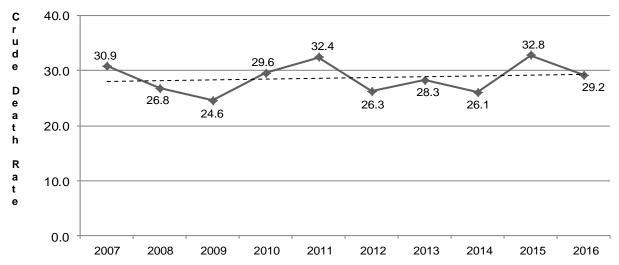
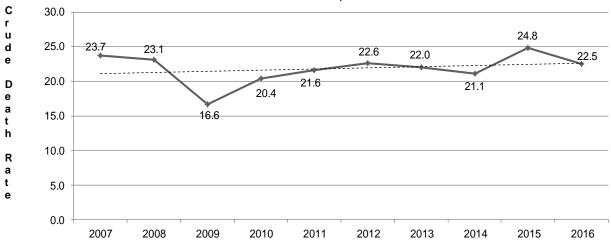


Figure 27
South Dakota Resident Crude Death Rate Due to Influenza and Pneumonia by Year of Death, 2007-2016



Note: The crude death rate is calculated using yearly U.S. Census Bureau population estimates for that year. Source: South Dakota Department of Health, Office of Health Statistics

Figure 28
South Dakota Resident Crude Death Rate Due to Intentional Self-Harm (Suicide) by Year of Death, 2007-2016

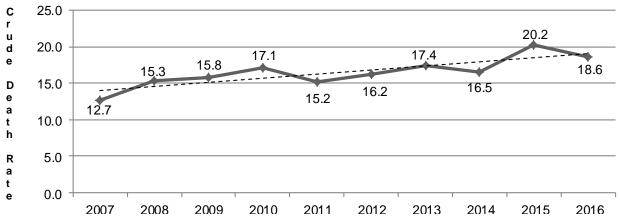


Figure 29
South Dakota Resident Crude Death Rate Due to Chronic Liver Disease and Cirrhosis by Year of Death, 2007-2016

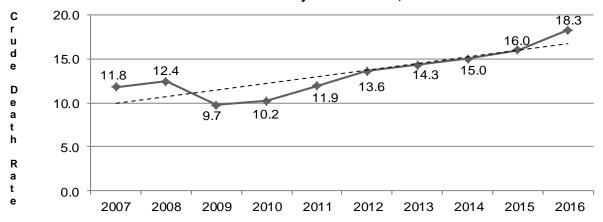
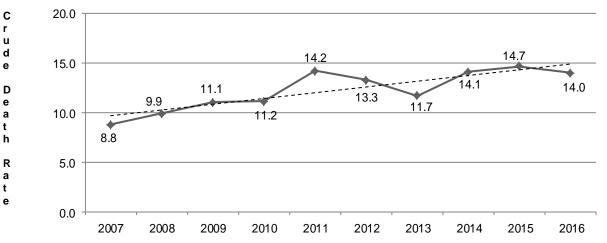


Figure 30
South Dakota Resident Crude Death Rate Due to Unspecified Dementia by Year of Death, 2007-2016



Note: The crude death rate is calculated using yearly U.S. Census Bureau population estimates for that year. Source: South Dakota Department of Health, Office of Health Statistics

Figure 31
South Dakota Resident Crude Death Rate Due to Essential (Primary)
Hypertension and Hypertensive Renal Disease by Year of Death, 2007-2016

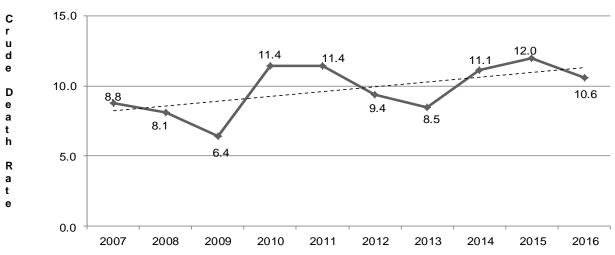


Figure 32
South Dakota Resident Crude Death Rate Due to Nephritis, Nephrotic Syndrome, and Nephrosis by Year of Death, 2007-2016

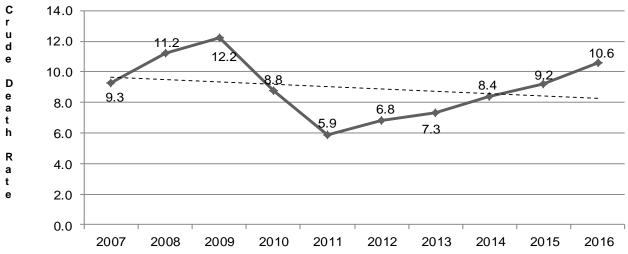
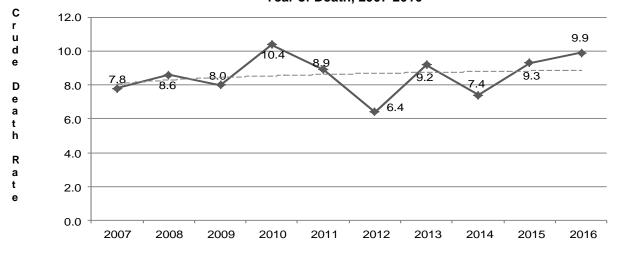


Figure 33
South Dakota Resident Crude Death Rate Due to Parkinson's Disease by Year of Death, 2007-2016



Note: The crude death rate is calculated using yearly U.S. Census Bureau population estimates for that year. Source: South Dakota Department of Health, Office of Health Statistics

Figure 34
South Dakota Resident Crude Death Rate Due to Septicemia by Year of Death, 2007-2016

